

Cont
B2

of the particular compression algorithm. As noted above, for example, the G732.1 technique yields a smaller packet size than the G.711 compression technique. While a smaller packet size increases system capacity and throughput, the quality of voice is compromised. Thus, the G.711 is likely to yield a better quality voice transmission than the G723.1. It should be noted that whichever codec is utilized by the router 306 is also used by the router 310 to de-compress the transmitted packets.--

In the Claims.

Please amend the following claims:

Sub C4
B3

1 1. (Once Amended) A router device for use in a communication system having at least
2 two telephone devices in communications with each other for transferring voice
3 information therebetween through a packet switching network, the router device being
4 coupled between one of the telephone devices and the packet switching network and for
5 performing one of a plurality of types of compression/decompression (codec) operation on
6 information being transferred between the telephone devices comprising:

7 a Digital Signal Processor (DSP) module responsive to an analog telephone signal
8 from one of the telephone devices and operative to convert the analog telephone signal to
9 a digital telephone signal and further operative to packetize the digital telephone signal for
10 transmission to a remotely-located router device, the router device and the remotely-
11 located device initially negotiating to utilize a first type of codec, the DSP module for
12 switching from using [a] said first type of codec to using a second type of codec upon
13 detection of degradation in the quality of the voice information,

14 wherein switching between the codecs is performed while a conversation is taking
15 place between the two telephone devices yet avoiding substantial disturbance to users of
16 the telephone devices.

Sub C6
B4

1 17. (Once Amended) A method for use in a communication system having at least two
2 telephone devices in communications with each other for transferring voice information
3 therebetween through a packet switching network, the router device being coupled between
4 one of the telephone devices and the packet switching network and for performing one of a

5 plurality of types of compression/decompression (codec) operation on information being
6 transferred between the telephone devices comprising:

7 receiving an analog telephone signal through a telephone connection from one of the
8 telephone devices;

9 converting the analog telephone signal to a digital telephone signal;

10 separating information carried on the digital telephone signal into packets of
11 information;

12 initially negotiating a first type of codec for communication between the telephone
13 devices;

14 using [a] the first type of codec for transferring the packets of information between the
15 two telephone devices through the packet switching network; and

16 switching to using a second type of codec upon detection of degradation in the quality
17 of the voice information during the course of the telephone connection.
